

Half pel motion estimation method for B pictures

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Abstract of EP0735769

Disclosed is a method of forming a bidirectionally coded picture, i.e., a B frame, from two reference pictures, e.g. I or P frame pictures. The method utilizes a single memory fetch of each reference picture, and interpolation of the estimated motion of each picture. This is accomplished by identifying a full pixel closest match from three full pixel boundary searches, calculating half pixel reference picture data therefrom, interpolating the half pixels to form bidirectionally coded pictures, and finding the closest match at the half pixel boundary. The intermediate results are stored in an 18 x 18 x 11 bit buffer holding a 7 bit partial sum for each pixel, said partial sum formed by adding the six most significant bits of corresponding I and P frame pixels. In this buffer four bits of each word in the buffer are the two Least Significant Bits of the corresponding I and P frame pixels.

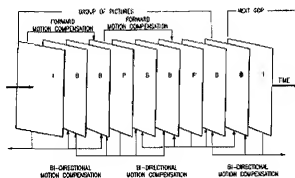


FIG. 1

Data supplied from the esp@cenet database - Worldwide